

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Allocation method for allocating transmission resources to a plurality of communications between a base station and a plurality of mobile terminals, ~~characterised~~ characterized in that, for a communication with a given mobile terminal, ~~it selects~~ a resource allocation criterion is selected from amongst a plurality of predetermined allocation criteria consisting of extra-cellular interference and at least one of intra-cellular interference and allocation of time resources, the selection of the said criterion being made using a quantity characteristic of the propagation losses between the said mobile terminal and the base station.

Claim 2 (Currently Amended): Allocation method according to Claim 1, ~~characterised~~ characterized in that the said characteristic quantity is a function of the distance between the said mobile terminal and the base station.

Claim 3 (Currently Amended): Allocation method according to Claim 1, ~~characterised~~ characterized in that said characteristic quantity is a function of the coefficient of coupling between the antenna of the said mobile terminal and the antenna of the base station.

Claim 4 (Currently Amended): Allocation method according to one of the preceding claims, ~~characterised~~ characterized in that the said resources comprise transmission codes and time slots, a set of codes being associated with each slot.

Claim 5 (Currently Amended): Allocation method according to Claim 4, ~~characterised~~ characterized in that the said plurality of criteria comprises a first allocation criterion allocating to a new communication the transmission time slot having the lowest level of interference.

Claim 6 (Currently Amended): Allocation method according to Claim 4, ~~characterised~~ characterized in that the said plurality of criteria comprises a second allocation criterion allocating to a new communication the transmission time slot having the lowest non-zero number of codes not yet allocated.

Claim 7 (Currently Amended): Allocation method according to Claim 4, ~~characterised~~ characterized in that the said plurality of criteria comprises a third allocation criterion allocating to a new communication the transmission time slot having the largest number of codes not yet allocated.

Claim 8 (Currently Amended): Allocation method according to ~~Claims~~ Claim 5 and 6, ~~characterised~~ characterized in that the first criterion is selected when the propagation losses are low and in that the second criterion is selected when the propagation losses are high.

Claim 9 (Currently Amended): Allocation method according to ~~Claims~~ Claim 5 and 7, ~~characterised~~ characterized in that the first criterion is selected when the propagation losses are low and in that the third criterion is selected when the propagation losses are high.

Claim 10 (New): Allocation method according to Claim 6, characterized in that the first criterion is selected when the propagation losses are low and in that the second criterion is selected when the propagation losses are high.

Claim 11 (New): Allocation method according to Claim 7, characterized in that the first criterion is selected when the propagation losses are low and in that the third criterion is selected when the propagation losses are high.

Claim 12 (New): Allocation method for allocating transmission resources to a plurality of communications between a base station and a plurality of mobile terminals, characterized in that, for a communication with a given mobile terminal, a resource allocation criterion is selected from amongst a plurality of predetermined allocation criteria, the selection of the said criterion being made using a quantity characteristic of the propagation losses between the said mobile terminal and the base station;

characterized in that the said resources comprise transmission codes and time slots, a set of codes being associated with each slot; and

characterized in that the said plurality of criteria comprises an allocation criterion allocating to a new communication the transmission time slot having the lowest level of interference.

Claim 13 (New): Allocation method according to Claim 12, characterized in that the said characteristic quantity is a function of the distance between the said mobile terminal and the base station.

Claim 14 (New): Allocation method according to Claim 12, characterized in that said characteristic quantity is a function of the coefficient of coupling between the antenna of the said mobile terminal and the antenna of the base station.

Claim 15 (New): Allocation method for allocating transmission resources to a plurality of communications between a base station and a plurality of mobile terminals, characterized in that, for a communication with a given mobile terminal, a resource allocation criterion is selected from amongst a plurality of predetermined allocation criteria, the selection of the said criterion being made using a quantity characteristic of the propagation losses between the said mobile terminal and the base station;

characterized in that the said resources comprise transmission codes and time slots, a set of codes being associated with each slot; and

characterized in that the said plurality of criteria comprises an allocation criterion allocating to a new communication the transmission time slot having the lowest non-zero number of codes not yet allocated.

Claim 16 (New): Allocation method according to Claim 15, characterized in that the said characteristic quantity is a function of the distance between the said mobile terminal and the base station.

Claim 17 (New): Allocation method according to Claim 15, characterized in that said characteristic quantity is a function of the coefficient of coupling between the antenna of the said mobile terminal and the antenna of the base station.

Claim 18 (New): Allocation method for allocating transmission resources to a plurality of communications between a base station and a plurality of mobile terminals, characterized in that, for a communication with a given mobile terminal, a resource allocation criterion is selected from amongst a plurality of predetermined allocation criteria, the selection of the said criterion being made using a quantity characteristic of the propagation losses between the said mobile terminal and the base station;

characterized in that the said resources comprise transmission codes and time slots, a set of codes being associated with each slot; and

characterized in that the said plurality of criteria comprises an allocation criterion allocating to a new communication the transmission time slot having the largest number of codes not yet allocated.

Claim 19 (New): Allocation method according to Claim 18, characterized in that the said characteristic quantity is a function of the distance between the said mobile terminal and the base station.

Claim 20 (New): Allocation method according to Claim 18, characterized in that said characteristic quantity is a function of the coefficient of coupling between the antenna of the said mobile terminal and the antenna of the base station.

Claim 21 (New): An allocation method, comprising:
determining a first value which is a function of propagation loss between a mobile terminal and a base station;
comparing said value to a second value;
based on said comparing selecting first and second alternative allocation criteria;

when said first criterion is selected, selecting a time slot in a transmission frame based upon a level of interference; and

when said second criterion is selected, selecting a time slot in a transmission based upon availability of transmission codes.

Claim 22 (New): A method according to claim 21, comprising:

when said first criterion is selected, selecting a time slot having a lowest level of interference.

Claim 23 (New): A method according to claim 22, comprising:

when said second criterion is selected, selecting one of a time slot having a largest number of available transmission codes and a non-saturated time slot having a smallest number of available transmission codes.

Claim 24 (New): A method according to claim 22, comprising:

when said first criterion is selected, determining interference levels at a plurality of time slots in a transmission frame.

Claim 25 (New): A method according to claim 21, comprising:

when said second criterion is selected, selecting one of a time slot having a largest number of available transmission codes and a non-saturated time slot having a smallest number of available transmission codes.

Claim 26 (New): A method according to claim 21, wherein said determining step comprises:

Application No. 10/073,318

Reply to Office Action of August 12, 2004

determining said first value as a function of distance between said mobile terminal and said base station and determining said first value as a function of coefficient coupling between an antenna of said mobile station and an antenna of said base station.